

REMARKS

The outstanding Action has been received and carefully noted. The above amendments and the following remarks are submitted as a full and complete response thereto.

Claims 1-6 are pending in which claims 3 and 6 have been withdrawn from consideration. By this Amendment, claims 1-4 have been amended to more particularly set forth the present invention. No new matter is introduced.

Election/Restriction:

Rejoinder of claims 3 and 6 is respectfully requested if generic claims 1, 4 and 5 are allowed.

Claim Rejections:

Claims 1, 2, 4 and 5 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite.

Claim 1 from which claims 2, 4 and 5 depend has been amended to more particularly recite the structural relationship among adhesive film layers. As such, the withdrawal of § 112 rejection is respectfully requested.

Claims 1-6 are rejected under 35 U.S.C. § 103(a) as being unpatentable over *Schroeder et al.* (US 5,820,957, "*Schroeder*") in view of *Nishizawa et al.* (US 6,268,704, "*Nishizawa*").

An adhesive film for a display according to the present invention as recited in independent claim 1 includes a transparent substrate, an anti-reflection layer provided on one surface of the transparent substrate, and an adhesive layer provided on the other surface of the transparent substrate. The anti-reflection layer and the adhesive layer each have a predetermined color for rendering the adhesive film achromatic when the layers are mixed. In particular, the anti-reflection layer is formed by providing a relatively high refractive index layer and a relatively low refractive index layer, as described on line 15 of page 7 to line 24 of page 12 in the specification of the present application.

not in
claim

Thus, the present invention requires that the adhesion layer is colored by adding coloring matters thereto so that when combined with the anti-reflection layer, which is colored by materials used for adjusting refractive index, the adhesion film becomes achromatic. If the such construction is not used in favor of, e.g., adding additional coloring matters to the colored anti-reflection layer to render the anti-reflection layer achromatic, then the following problems often occur (e.g., see **Nishizawa**).

(1) The relative refractive indexes of the high refractive index layer and the low refractive index layer in the anti-reflection layer are adversely affected, and the anti-reflection function is deteriorated.

?
not
understood

(2) When coloring matters are added into the low refractive index layer in the anti-reflection layer, coloring matters must have extremely high concentration since the low refractive index layer is formed to be very thin, and therefore, it is impossible to make the anti-reflection layer achromatic.

(3) In the case in which there are many kinds of desired anti-reflection functions, processes for forming achromatic anti-reflection layers are complicated by adjusting color of the anti-reflection layer, and the productivity of adhesive films is thereby inferior. ?
not patentability

Schroeder discloses an anti-reflective film that includes three optically transparent layers. It is noted that the anti-reflective layer in **Schroeder** does not have a multi-layer construction which provides a high refractive index layer and a low refractive index layer using, e.g., pigments, and rather it is a roughened layer formed by transferring rough texture of a film. Thus, the anti-reflective film in **Schroeder** is merely a colorless transparent film.

Nishizawa discloses a color cathode ray tube equipped with a field leak preventing coating film, and teaches that body color of the cathode ray tube may be changed to an achromatic color by adding coloring matters (see 3: 49 - 52 of **Nishizawa**). Since rendering the cathode ray tube achromatic in **Nishizawa** is carried out by adding coloring matter into a low-refractive second layer, problem #2 as discussed above remains unresolved in **Nishizawa**. Additionally, assuming **Nishizawa** has an inferior anti-reflection property, coloring the low-refractive second layer does not resolve problem #1 as discussed above.

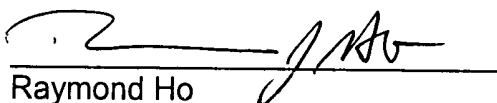
In short, the anti-reflective film in **Schroeder** is essentially transparent and it does not require any coloring matters from **Nishizawa**. As such, one skilled in the art would not have been motivated to incorporate the teachings of **Nishizawa** and **Schroeder**. Furthermore, the claimed construction of the present invention is not described in the cited references of **Nishizawa** and **Schroeder**, and even if the cited

references are combined, such combination still does not disclose, teach or suggests the claimed invention of using colored adhesion and anti-reflection layers to achieve superior anti-reflection function without having the above-discussed problems.

In view of the foregoing, it is respectfully submitted that the cited references fail to teach or suggest all features of the application as now recited in the claims 1, 2, 4 and 5. Accordingly, the Applicant respectfully requests allowance of claims 1, 2, 4 and 5 and the prompt issuance of a Notice of Allowability. However, should the Examiner believe anything further is desirable in order to place this application in better condition for allowance, the Examiner is requested to contact the undersigned at the telephone number listed below.

In the event this paper is not considered to be timely filed, the Applicant respectfully petitions for an appropriate extension of time. Any fees for such an extension, together with any additional fees that may be due with respect to this paper, may be charged to Counsel's Deposit Account No. 01-2300.

Respectfully submitted,


Raymond Ho
Registration No. 41,838

Customer No. **004372**
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC
1050 Connecticut Avenue, N.W., Suite 400
Washington, D.C. 20036-5339
Tel: (202) 857-6000
Fax: (202) 638-4810
RH/elz/klf (#159106v1)
Enclosures: Petition for Extension of Time
Mark-Up Copy of Amended Claims



MARKED-UP COPY OF AMENDED CLAIMS

1. (Amended) An adhesive film for a display, comprising: [at least three layers of]

a transparent substrate,

an [optical functional] anti-reflection layer provided on one surface of said transparent substrate, and

an adhesive layer provided on the other surface of said transparent substrate, [at least two of] said anti-reflection layer and said adhesive layer each having a predetermined color for rendering said adhesive film [layers being colored, and said colors are] achromatic [by mixing] when said layers are mixed.

2. (Amended) [An] The adhesive film [for a display,] in accordance with claim 1, wherein [said optical functional layer is provided on one surface of said transparent substrate, said adhesive layer is provided on the other surface of said transparent substrate, and] said [optical functional] anti-reflection layer has [at least one of] an anti-reflection function[, an anti-static function, and an infrared ray blocking function].

3. (Amended) [An] The adhesive film [for a display,] in accordance with claim 1, wherein said [optical functional] anti-reflection layer contains a hard coat material.

4. (Amended) [An] The adhesive film [for a display,] in accordance with claim 2, wherein said [optical functional] anti-reflection layer contains a hard coat material.

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